



KEMCOM

COPAS 10EC

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GENERAL

Copas 10EC is based on a synthetic pyrethroid and has been tested effective for the protection of timber against insect borers. It is formulated in emulsion concentrate form for easy handling and dilution. Application into timber is either by dip/spray (short-term protection) or by pressure-impregnation (long-term protection).

TYPICAL SPECIFICATIONS

Active ingredient	: 10% w/w cypermethrin
Density at 20°C	: approx. 0.9
Appearance	: yellow liquid
pH (2% w/v)	: 7.9
Flash point	: above 32°C
Emulsion characteristic	: conforms to WHO standard
Heat stability	: stable after storage at 54°C for 14 days

PACKAGING

Copas 10EC is normally supplied in metal drums with 25 litres nett volume. Please read label carefully and take note of the details on hazard and safety precautions.

RECOMMENDED USAGE

Copas 10EC is a contact insecticide formulated for protection of timber against insect borers. The product can be diluted with either water or a hydrocarbon solvent depending on the requirements for treatment. Please refer to Kemcom for details.

1. SHORT-TERM PROTECTION

Dilute 1 litre Copas 10EC with water to a total volume of 800 litres. Dip or spray timber to point of run-off. Ensure all surfaces are thoroughly wetted.

2. LONG-TERM PROTECTION

Dilute 1 litre Copas 10EC with water to a total volume of 5000 litres. Apply into timber by vacuum-pressure impregnation. Please refer to Kemcom for more details.

EFFICACY DATA

Test solution, % a.i.	Results	Reference
0.0125	Protection of dip-treated rubberwood against insect borers in field trial.	Hong Lay Thong Forest Research Institute of Malaysia Personal Communication (April 1990)
0.01 0.10	Short-term protection against lyctus. Effective control against anobium and hylotrupes larvae.	Susan J. Reed and R.W. Berry An evaluation of the synthetic pyrethroid cypermethrin in organic solvent and emulsion formulations IRG/WP/3290 (21.3.80)
0.002	Pressure impregnation of sawn rubberwood for export – MTIB Quality control scheme for export sawn rubberwood reported.	Anon. Malaysian Timber Industry Board. Personal communication 2 April 1990

SAFETY PRECAUTIONS

1. Avoid skin contact. Wear safety clothes, rubber gloves, boots and a rubber apron when handling the product. Clothing should be changed and laundered every day and as soon as possible after any obvious contamination.
2. Avoid breathing spray mist. Where respiratory protection and face shield or goggles when applying by spray.
3. Do not smoke, drink or eat at the treatment area. Wash thoroughly before taking meals and at the end of the working day.
4. Ensure that the equipment used is properly maintained and is not leaking.
5. Keep product and contaminated clothing away from children, food and living quarters.
6. Extremely dangerous to fish: do not contaminate ponds, waterways and ditches with the product or used container.
7. Empty containers and clean thoroughly. Puncture the container to prevent re-use and dispose according to the local authority regulations.

FIRST AID

Remove contaminated clothing immediately and wash contaminated skin thoroughly with plenty of water and soap.

In the event of eye splashes, flush eye immediately with water continuously for at least 15 minutes. Refer immediately to doctor for medical attention.

If swallowed, seek medical aid immediately. Show the doctor the product label.